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(54) HEAT-STABLE FIREFLY LUCIFERASE, HEAT-STABLE FIREFLY LUCIFERASE GENE, NEW RECOMBINANT DNA AND PRODUCTION OF HEAT-STABLE FIREFLY LUCIFERASE

(57)Abstract:

PURPOSE: To provide a new modified gene useful for the production of a heat-stable firefly luciferase.

CONSTITUTION: A heat-stable firefly luciferase gene coding an amino acid sequence corresponding to the amino acid sequence of a wild-type firefly luciferase, luciferase of *Luciola cruciata* (the amino acid sequence of formula)

Chemical structure formula showing the amino acid sequence of the firefly luciferase gene, represented as a series of amino acid residues in a sequence.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200  
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